ENTERPRISE CLASS III LANDFILL
AND RECYCLING FACILITY
FIRST SEMIANNUAL COMPLIANCE MONITORING REPORT 2014
DEP PERMIT NO. 177982-019-SC/T3, WACS No. 87895

Prepared by:

LOCKLEAR AND ASSOCIATES, INC.
4140 NW 37th Place, Suite A
Gainesville, Florida 32606

February 2015

JOHN D. LOCKLEAR
LICENSE
No. PG-1467
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST
2/16/15

Locklear & Associates
Engineering & Environmental Consulting

February 5, 2015

John Morris, P.G.
Florida Department of Environmental Protection – Southwest District
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

RE: Compliance Monitoring Report – Second Semiannual 2014
Enterprise Class III Landfill and Recycling Facility
Permit No. 177982-020-SC/T3
WACS No. 87895

Dear Mr. Morris:

This report presents data from the second semiannual sampling event at the Enterprise Class III Landfill and Recycling Facility performed on September 15, 16 and 17, 2014, and December 10, 2014.

All groundwater wells which require semiannual sampling were sampled and analyzed for the parameters listed in Appendix 3.4.c of the permit with the exception of BW-1A, MW-8, MW-9 and MW-10 which were dry or contained insufficient water for sampling. The supply well was sampled for parameters listed in Appendix 3.4.c of the permit. Quality Assurance/Quality Control samples were also collected. All sampling performed by Ideal Tech Services, Inc. Samples were submitted to Environment Conservation (ENCO) Laboratories, Inc. in Orlando, Florida.

Monitoring wells BW-1A, MW-3, MW-4, MW-8, MW-9, MW-10, MW-11 and MW-12A are surficial aquifer monitoring wells. Water levels within the surficial aquifer may not be laterally continuous in all areas. Each monitoring location with a dry surficial aquifer well has an existing Floridan aquifer well installed in a cluster. Groundwater samples were collected from each of the Floridan aquifer wells.

Parameters reported at or outside groundwater standards are presented in Attachment 2. Mercury was reported in monitoring well MW-11B above the Primary Drinking Water Standard (PDWS) of 2 µg/L in the sample collected in September. MW-11B was resampled on December 10, 2014. The resample mercury concentration was below the PDWS. We recommend continued semiannual monitoring as specified in the current permit.

If you have any questions regarding this report, please contact me or Walker Wrenn at (352) 672-6867.

Sincerely,

John Locklear, P.G.
President

P:\P Drive Files\ANGELOS (FLORIDA)\Enterprise Class III\COMPLIANCE MONITORING\2014\14S2\Figures\14s2_letter.doc

Xc: John Arnold, P.E.

Attachment 1: Groundwater Elevation Data, Well Construction Table, and Groundwater Contour Map
Attachment 2: Analysis Results Compared to Groundwater Standards
Attachment 3: Groundwater Parameters At or Above the Laboratory Detection Limit
Attachment 4: Field Forms
Attachment 5: ADaPT Files and Laboratory Reports including Chains-of-Custody

Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Enterprise Class III Landfill and Recycling Facility

Address 41111 Enterprise Road

City Dade City, Florida Zip 33525 County Pasco

Telephone Number ( )

(2) WACS Facility ID 87895

(3) DEP Permit Number 177982-020-SO/T3

(4) Authorized Representative's Name John Locklear, P.G. Title

Address 4140 NW 37th Place, Suite A

City Gainesville, Florida Zip 32606 County Alachua

Telephone Number (352)672-6867

Email address (if available) john@locklearconsulting.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

2/6/15
(Date)

(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Ideal Tech Services

Analytical Lab NELAC / HRS Certification # E83079

Lab Name Environmental Conservation Laboratories, Inc.

Address 10775 Central Port Drive, Orlando, Florida 32824

Phone Number (407)826-5314

Email address (if available)

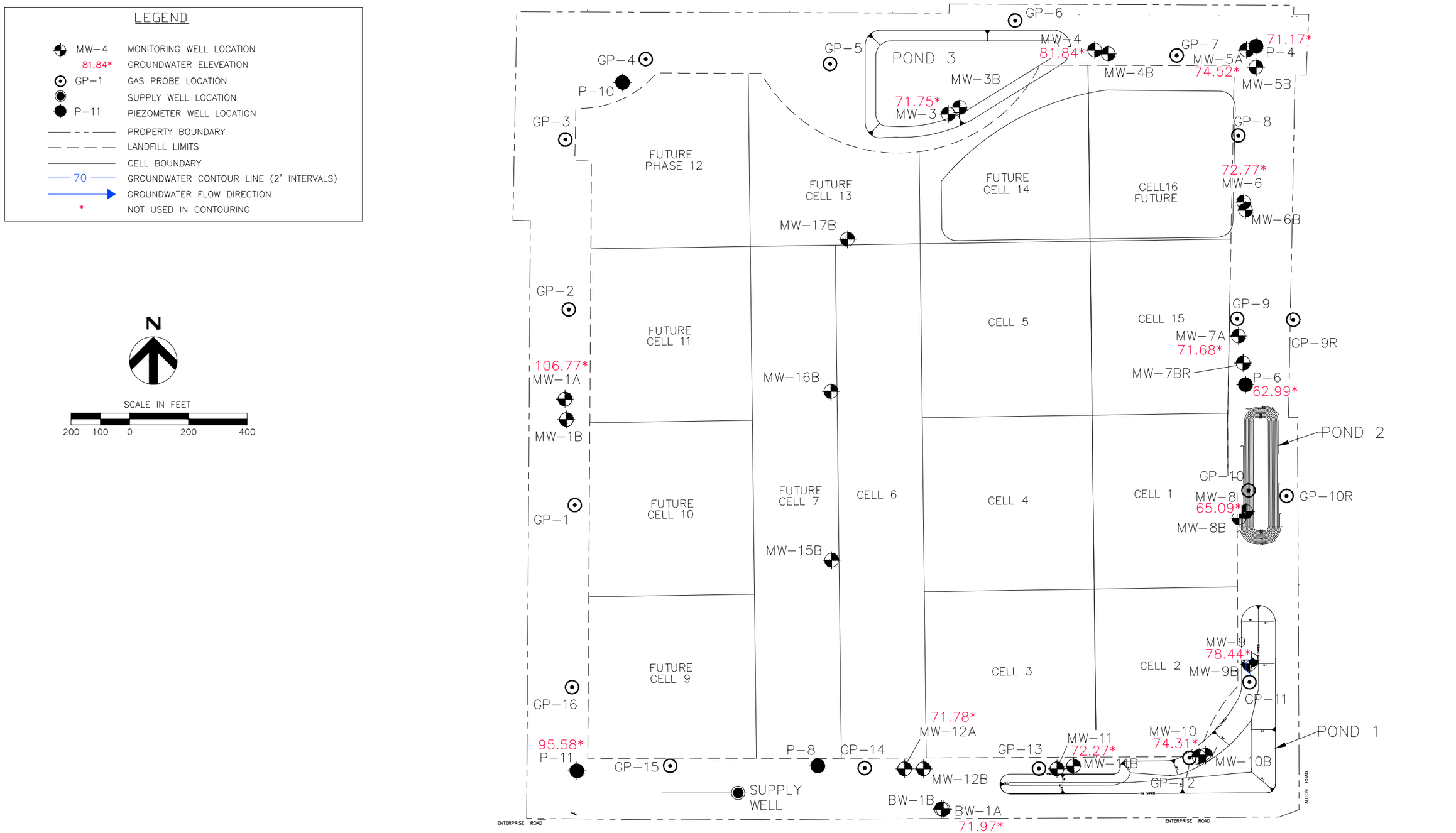
Attachment 1
Groundwater Elevation Data and Groundwater Contour Maps

GROUNDWATER ELEVATION DATA

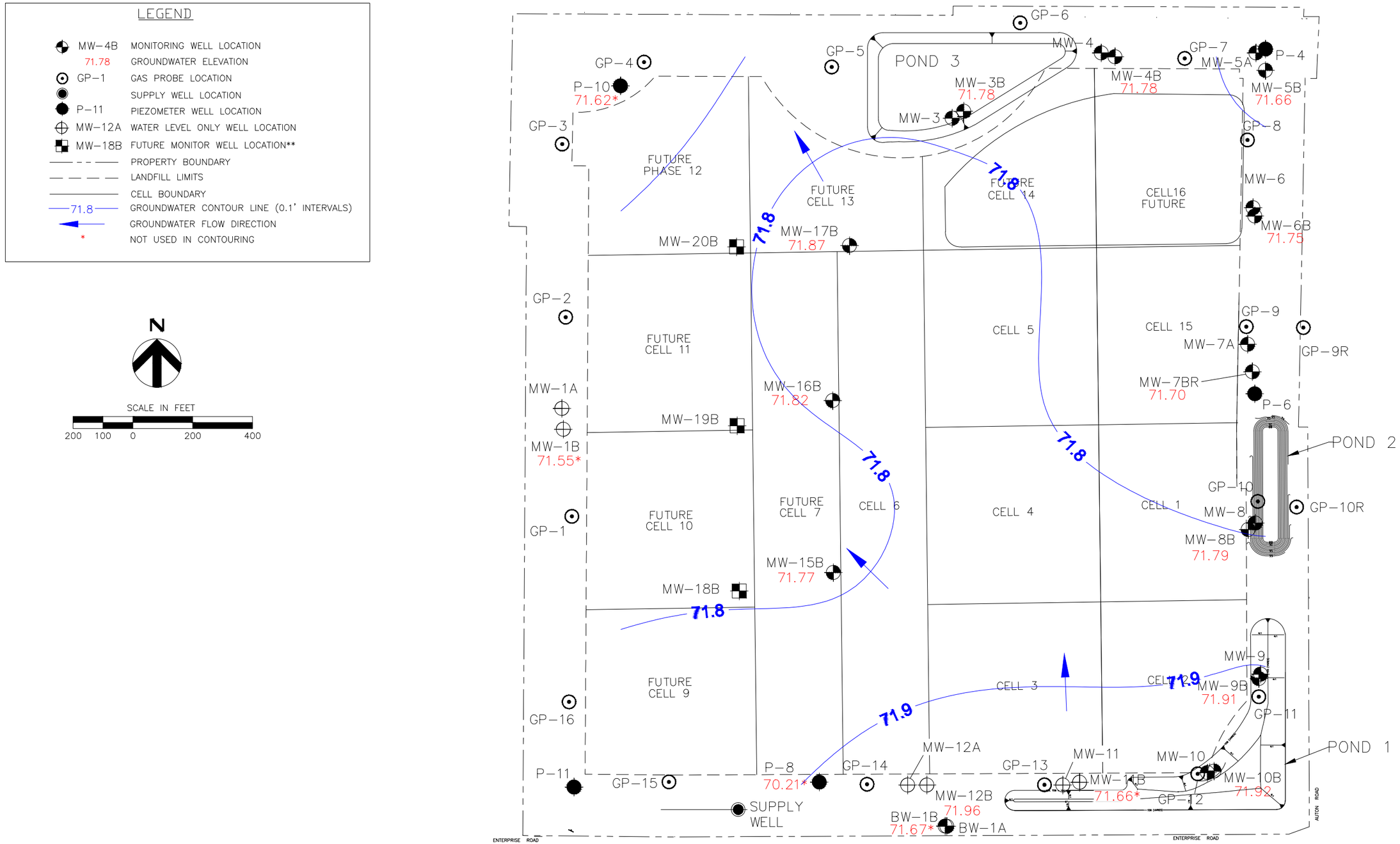
Enterprise Class III Landfill and Recycling Facility
14S2

WELL NAME	TOP OF CASING	CONTOUR MAP		TIME OF SAMPLING	
		DEPTH TO WATER	GROUDWATER ELEVATION	DEPTH TO WATER	GROUDWATER ELEVATION
	(NGVD,FT)	(FT)	(NGVD,FT)	(FT)	(NGVD,FT)
MW-1A	173.77	67.00	106.77	NA	NA
BW-1A	122.50	50.53	71.97	50.53	71.97
MW1B	174.11	102.56	71.55	102.56	71.55
BW-1B	122.82	51.15	71.67	51.15	71.67
MW-3	85.39	13.64	71.75	13.64	71.75
MW-3B	84.80	13.02	71.78	13.02	71.78
MW-4	100.59	18.75	81.84	18.75	81.84
MW-4B	100.87	29.09	71.78	29.09	71.78
MW-5A	86.74	12.22	74.52	12.28	74.46
MW-5B	85.70	14.04	71.66	14.06	71.64
MW-6	88.65	15.88	72.77	16.00	72.65
MW-6B	89.10	17.35	71.75	17.36	71.74
MW-7A	100.72	29.04	71.68	29.04	71.68
MW-7BR	103.27	31.57	71.70	31.57	71.70
MW-8	100.10	35.01	65.09	35.01	65.09
MW-8B	108.52	36.73	71.79	36.73	71.79
MW-9	108.00	29.56	78.44	29.56	78.44
MW-9B	109.75	37.84	71.91	37.84	71.91
MW-10	111.62	37.31	74.31	37.31	74.31
MW-10B	110.00	38.08	71.92	38.08	71.92
MW-11	104.45	32.18	72.27	32.18	72.27
MW-11B	106.11	34.45	71.66	34.45	71.66
MW-12A	121.43	49.65	71.78	49.65	71.78
MW-12B	121.84	49.88	71.96	49.88	71.96
MW-15B	147.87	76.10	71.77	76.10	71.77
MW-16B	138.01	66.19	71.82	66.19	71.82
MW-17B	87.21	15.34	71.87	15.34	71.87
P-4	84.55	13.38	71.17	NS	NS
P-6	94.16	31.17	62.99	NS	NS
P-8	133.94	63.73	70.21	NS	NS
P-10	132.60	60.98	71.62	NS	NS
P-11	150.76	55.18	95.58	NS	NS
SUPPLY WELL	NM	NM	NM	NS	NS

NS = Not sampled
NM = Not measured
NA = Not Available



Locklear & Associates Engineering & Environmental Consulting	PROJECT MANAGER	W. WRENN	ENTERPRISE ROAD RECYCLING AND DISPOSAL FACILITY DADE CITY, FLORIDA	SURFICIAL AQUIFER GROUNDWATER CONTOUR MAP	SEPTEMBER 15, 2014
	DESIGNED	J. LOCKLEAR			FILENAME
	CHECKED BY	W. WRENN			SCALE
	DRAWN BY	L. KOREN			SHEET
	PROJECT NUMBER	114-001			



Locklear & Associates
Engineering & Environmental Consulting

PROJECT MANAGER	W. WRENN
DESIGNED	J. LOCKLEAR
CHECKED BY	W. WRENN
DRAWN BY	L. KOREN
PROJECT NUMBER	114-001

ENTERPRISE ROAD
RECYCLING AND DISPOSAL FACILITY
DADE CITY, FLORIDA

FLORIDAN AQUIFER
GROUNDWATER CONTOUR MAP

SEPTEMBER 15, 2014

FILENAME
SCALE
SHEET

Attachment 2
Analysis Results Compared to Groundwater Standards

Enterprise Class III Landfill and Recycling Facitly

Analysis Results Compared to Groundwater Standards

Second Semiannual Compliance Monitoring Sampling Results

PARAMETER	COLLECTION	pH (FIELD)	IRON	MERCURY
STANDARD	DATE	6.5-8.5 s.u.**	300 µg/L**	2 µg/L*
UNITS	M/D/Y	S.U.	µg/L	µg/L
Background				
BW-1B	9/15/2014	-	-	-
Detection				
MW-3	9/16/2014	-	-	-
MW-3B	9/16/2014	-	-	-
MW-4	9/16/2014	5.9	580	-
MW-4B	9/16/2014	-	-	-
MW-5A	9/17/2014	5.62	-	-
MW-5B	9/17/2014	-	-	-
MW-6	9/17/2014	5.24	-	-
MW-6B	9/17/2014	-	-	-
MW-7A	9/16/2014	-	954	-
MW-7BR	9/16/2014	-	-	-
MW-8B	9/16/2014	-	4720	-
MW-9B	9/16/2014	-	-	-
MW-1B	9/15/2014	-	-	-
MW-10B	9/15/2014	5.9	-	-
MW-11	9/15/2014	4.33	18200	-
MW-11B	9/15/2014	5.81	-	3.14
MW-11B resample	12/10/2014	5.78	NM	0.0855
MW-12B	9/15/2014	-	-	-
MW-15B	9/15/2014	-	-	-
MW-16B	9/15/2014	8.73	-	-
MW-17B	9/15/2014	-	-	-
Other, Water Supply				
Supply Well	9/17/2014	-	-	-
QAQC				
EQUBLK	9/16/2014	NM	-	-
TRIP1	9/15/2014	NM	NM	NM
TRIP2	9/16/2014	NM	NM	NM
TRIP3	9/17/2014	NM	NM	NM

LEGEND

*** = primary drinking water standard**
**** = secondary drinking water standard**
***** = Chapter 62-777-Groundwater Cleanup Target Level (GCTL)**
A = Analysis Result is at Groundwater Standard
- = Analysis Result is not at or outside Groundwater Standard
NS = Not Sampled
NM = Not Measured

Note: Analysis results which were reported above the laboratory detection limit, but not at or above the Groundwater Standard are not displayed in this table.

Attachment 3
Groundwater Parameters At or Above the Laboratory Detection Limit

Enterprise Class III Landfill and Recycling Facitly

Parameters At or Above Laboratory Detection Limit

Second Semiannual Compliance Monitoring Sampling Results - 2014

PARAMETER		CONDUCTIVITY	DISSOLVED OXYGEN	GROUND WATER ELEVATION	pH (FIELD)	REDOX POTENTIAL	TEMPERATURE
STANDARD	COLLECTION	1	1	1	6.5-8.5 s.u.**	1	1
UNITS	DATE	umhos/cm	mg/L	ft	S.U.	mV	deg C
Background							
BW-1B	9/15/2014	305	6.89	71.67	7.03	144.3	24.03
Detection							
MW-3	9/16/2014	426	3.00	71.75	6.87	356.0	25.90
MW-3B	9/16/2014	371	1.73	71.78	6.90	196.2	24.03
MW-4	9/16/2014	565	1.31	81.84	5.90	181.8	25.33
MW-4B	9/16/2014	286	2.69	71.78	6.55	155.8	23.60
MW-5A	9/17/2014	68	3.88	74.76	5.62	280.5	24.06
MW-5B	9/17/2014	271	3.03	71.64	7.69	207.0	23.46
MW-6	9/17/2014	59	4.74	76.65	5.24	190.0	24.07
MW-6B	9/17/2014	260	2.19	71.74	7.35	134.0	23.58
MW-7A	9/16/2014	152	0.19	71.68	4.88	250.2	25.80
MW-7BR	9/16/2014	282	1.17	71.70	6.90	71.0	24.51
MW-8B	9/16/2014	616	0.09	71.79	6.86	-110.8	26.44
MW-9B	9/16/2014	537	3.25	71.91	7.06	99.1	25.94
MW-1B	9/15/2014	424	5.96	71.55	7.19	69.4	24.65
MW-10B	9/15/2014	360	0.60	71.92	5.90	54.1	25.53
MW-11	9/15/2014	131	0.1	72.27	4.33	-89.4	26.19
MW-11B	9/15/2014	223	0.1	71.66	5.81	206.2	24.57
MW-11B resample	12/10/2014	5.78	0.22	72.54	5.78	-14.2	24.69
MW-12B	9/15/2014	260	5.39	71.96	6.56	106.6	23.96
MW-15B	9/15/2014	534	2.91	71.77	6.96	100.6	24.38
MW-16B	9/15/2014	240	7.20	71.82	8.73	73.4	24.12
MW-17B	9/15/2014	3870	4.87	71.87	7.13	156.2	23.40
Other, Water Supply							
Supply Well	9/17/2014	350	2.19	-	7.19	195.1	24.08

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Enterprise Class III Landfill and Recycling Facitly

Parameters At or Above Laboratory Detection Limit

Second Semiannual Compliance Monitoring Sampling Results - 2014

PARAMETER	TURBIDITY (FIELD)	ACETONE	AMMONIA as NITROGEN	CHLORIDE	CHLOROFORM	NITRATE as N	TDS
STANDARD	1	6300 µg/L***	2.8 mg/L***	250 mg/L**	70 µg/L***	10 mg/L*	500 mg/L**
UNITS	NTU	µg/L	mg/L	mg/L	µg/L	mg/L	mg/L
Background							
BW-1B	0.200	<5.0 U	<0.0073 U	20	< 0.8 U	6.0	170
Detection							
MW-3	0.500	6.5 I	<0.0073 U	5.7	< 0.8 U	0.43 I	210
MW-3B	1.20	6.7 I	<0.0073 U	4.1 I	< 0.8 U	0.55 I	200
MW-4	6.90	6.8 I	<0.0073 U	6.1	< 0.8 U	0.068 I	320
MW-4B	0.200	6.9 I	<0.0073 U	4.0 I	< 0.8 U	0.55 I	130
MW-5A	0.600	11	<0.0073 U	2.4 I	< 0.8 U	0.31 I	42
MW-5B	1.00	9.1 I	<0.0073 U	3.1 I	< 0.8 U	0.95 I	160
MW-6	3.00	6.0 I	<0.0073 U	5.0	< 0.8 U	0.87 I	38
MW-6B	0.200	9.4 I	<0.0073 U	3.2 I	< 0.8 U	0.86 I	140
MW-7A	4.20	13	0.016 I	12	< 0.8 U	<0.052 U	84
MW-7BR	3.10	<5.0 U	<0.0073 U	4.1 I	< 0.8 U	0.75 I	160
MW-8B	0.300	6.1 I	1.0	7.3	< 0.8 U	<0.052 U	330
MW-9B	0.900	7.2 I	<0.0073 U	5.9	< 0.8 U	3.5	300
MW-1B	1	<5.0 U	<0.0073 U	28	1	7	250
MW-10B	0.200	<5.0 U	<0.0073 U	4.7 I	< 0.8 U	1.4	190
MW-11	11.9	10	0.58	7.9	< 0.8 U	<0.052 U	88
MW-11B	1	9	<0.0073 U	5.6	< 0.8 U	3.14	110
MW-11B resample	1.7	-	-	-	-	-	-
MW-12B	2.1	<5.0 U	<0.0073 U	9.5	< 0.8 U	5.2	160
MW-15B	0.200	<5.0 U	<0.0073 U	13	< 0.8 U	3.4	310
MW-16B	0.200	<5.0 U	<0.0073 U	14	< 0.8 U	5.6	140
MW-17B	1.80	<5.0 U	<0.0073 U	5.7	< 0.8 U	3.0	190
Other, Water Supply							
Supply Well	0.200	5.1 I	<0.0073 U	8.9	< 0.8 U	3.3	220

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Enterprise Class III Landfill and Recycling Facitly

Parameters At or Above Laboratory Detection Limit

Second Semiannual Compliance Monitoring Sampling Results - 2014

PARAMETER	BARIUM	CHROMIUM	COPPER	IRON	MERCURY	SODIUM	VANADIUM
STANDARD	2000 µg/L*	100 µg/L*	1000 µg/L**	300 µg/L**	2 µg/L*	160 mg/L*	49 µg/L***
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L
Background							
BW-1B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	9.59	<2.00 U
Detection							
MW-3	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	6.71	<2.00 U
MW-3B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	4.72	<2.00 U
MW-4	29.4 I	4.76 I	<2.2 U	580	<0.0230 U	11.5	2.18 I
MW-4B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	4.82	<2.00 U
MW-5A	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	2.90	<2.00 U
MW-5B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	3.17	5.36 I
MW-6	<20.0 U	<4.50 U	<2.2 U	67.6	<0.0230 U	4.63	<2.00 U
MW-6B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	3.85	2.89 I
MW-7A	<20.0 U	<4.50 U	<2.2 U	954	0.208	7.03	<2.00 U
MW-7BR	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	4.34	7.82 I
MW-8B	98.5 I	<4.50 U	<2.2 U	4720	<0.0230 U	7.27	<2.00 U
MW-9B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	6.39	<2.00 U
MW-1B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	9.55	<2.00 U
MW-10B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	5.48	<2.00 U
MW-11	<20.0 U	<4.50 U	2.41	18200	0.0492 I	7.86	<2.00 U
MW-11B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	3.14	7.71	<2.00 U
MW-11B resample	-	-	-	-	0.0855 I	-	-
MW-12B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	8.03	<2.00 U
MW-15B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	8.32	<2.00 U
MW-16B	73.1 I	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	9.22	<2.00 U
MW-17B	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	6.11	<2.00 U
Other, Water Supply							
Supply Well	<20.0 U	<4.50 U	<2.2 U	<38.0 U	<0.0230 U	5.79	2.01 I

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Enterprise Class III Landfill and Recycling Facitly

Parameters At or Above Laboratory Detection Limit

Second Semiannual Compliance Monitoring Sampling Results - 2014

PARAMETER	METHYLENE CHLROIDE	TOLUENE
STANDARD	5 µg/L*	40 µg/L**
UNITS	µg/L	µg/L
Background		
BW-1B	<2.0 U	<0.72 U
Detection		
MW-3	<2.0 U	<0.72 U
MW-3B	<2.0 U	<0.72 U
MW-4	<2.0 U	<0.72 U
MW-4B	<2.0 U	<0.72 U
MW-5A	<2.0 U	<0.72 U
MW-5B	<2.0 U	<0.72 U
MW-6	<2.0 U	<0.72 U
MW-6B	<2.0 U	<0.72 U
MW-7A	2.6 I	<0.72 U
MW-7BR	<2.0 U	<0.72 U
MW-8B	2.8 I	<0.72 U
MW-9B	2.9 I	<0.72 U
MW-1B	<2.0 U	<0.72 U
MW-10B	<2.0 U	<0.72 U
MW-11	<2.0 U	11
MW-11B	<2.0 U	<0.72 U
MW-11B resample	-	-
MW-12B	<2.0 U	<0.72 U
MW-15B	<2.0 U	<0.72 U
MW-16B	<2.0 U	<0.72 U
MW-17B	<2.0 U	<0.72 U
Other, Water Supply		
Supply Well	<2.0 U	<0.72 U

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Attachment 4
Field Forms

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **SUPPLY WELL (SW)**	WACS_WELL: **21326**	DATE: 9/17/14

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): –	PURGE PUMP TYPE OR BAILER: IN PLACE PLUMBING

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

9/17/14 16.50

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): –	FINAL PUMP OR TUBING DEPTH IN WELL (feet): –	PURGING INITIATED AT: 1232	PURGING ENDED AT: 1243	TOTAL VOLUME PURGED (gallons) ~~12.5~~

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1237	7.50	7.50	1.50	In	7.02	24.09	350	2.19	.20	Clear	None
1240	4.50	12.00	1.50	Place	7.15	24.08	350	2.18	.20	Clear	None
1243	4.50	16.50	1.50	Plumbing	7.19	24.08	350	2.19	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1243	SAMPLING ENDED AT: 1248
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SW	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	In Place Plumbing	≈ 100
SW	1	PE	250 mL	HNO_3	None	<2	Metals	In Place Plumbing	≈ 1135
SW	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	In Place Plumbing	≈ 1135
SW	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	In Place Plumbing	≈ 1135
SW	2	CG	40 mL	4° C	None	Not Req'd	8011	In Place Plumbing	≈ 100

REMARKS: slowed pump to sample ORP = +195.1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **BW-1A**	WACS_WELL:	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 50.53	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (77.50 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
BW-1A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
BW-1A	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
BW-1A	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
BW-1A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
BW-1A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Historical data shows at this depth this well cannot be sampled

ORP-

DRY WELL - No Sample

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **BW-1B**	WACS_WELL:	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 51.15	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (108.50 feet – 51.15 feet) X .16 gallons/foot = 9.18 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 52.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 53.50	PURGING INITIATED AT: 1314	PURGING ENDED AT: 1343	TOTAL VOLUME PURGED (gallons): 14.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1333	9.50	9.50	.50	52.50	6.87	24.13	308	6.80	.20	Clear	None
1338	2.50	12.00	.50	52.50	6.95	24.10	305	6.70	.20	Clear	None
1343	2.50	14.50	.50	52.50	7.03	24.03	305	6.81	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1343	SAMPLING ENDED AT: 1348
PUMP OR TUBING DEPTH IN WELL (feet): 53.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
BW-1B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
BW-1B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
BW-1B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
BW-1B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
BW-1B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: 1/4 ow = 2.30 Slowed pump to sample ORP = +144.3

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-1A**	WACS_WELL: **19567**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): DRY	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (67.05 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ *100*
MW-1A	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-1A	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-1A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-1A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ *100*

REMARKS:
Historically Dry
DRY WELL - NO SAMPLE

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-1B**	WACS_WELL: **19568**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 102.56	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (118.50 feet – 102.56 feet) X .16 gallons/foot = 2.55 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 103.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 103.50	PURGING INITIATED AT: 1113	PURGING ENDED AT: 1123	TOTAL VOLUME PURGED (gallons): 12.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1117	5.00	5.00	1.25	102.58	7.24	24.62	418	5.86	6.30	Clear	None
1120	3.75	8.75	1.25	102.58	7.20	24.64	421	5.91	2.30	Clear	None
1123	3.75	12.50	1.25	102.58	7.19	24.65	424	5.96	1.00	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1123	SAMPLING ENDED AT: 1128
PUMP OR TUBING DEPTH IN WELL (feet): 103.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-1B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-1B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-1B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-1B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed pump to sample ORP = +69.4

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-3**	WACS_WELL: **19571**	DATE: 9/16/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 13.64	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14.45 feet – 13.64 feet) X .16 gallons/foot = .13 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.45	PURGING INITIATED AT: 1259	PURGING ENDED AT: 1310	TOTAL VOLUME PURGED (gallons): .33

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1304	.15	.15	.03	13.84	6.86	25.87	431	3.21	.60	Clear	None
1307	.09	.24	.03	13.84	6.89	25.93	427	3.14	.50	Clear	None
1310	.09	.33	.03	13.84	6.87	25.90	426	3.00	.50	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1310	SAMPLING ENDED AT: 1322
PUMP OR TUBING DEPTH IN WELL (feet): 14.45	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	RFPP	≈ 100
MW-3	1	PE	250 mL	HNO_3	None	<2	Metals	PP	≈ 114
MW-3	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP	≈ 114
MW-3	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	≈ 114
MW-3	2	CG	40 mL	4° C	None	Not Req'd	8011	RFPP	≈ 100

REMARKS: ITS PP #1 ORP = +356.0

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-3B**	WACS_WELL: **21964**	DATE: 9/16/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 13.02	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (43.75 feet – 13.02 feet) X .16 gallons/foot = 4.92 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.00	PURGING INITIATED AT: 1255	PURGING ENDED AT: 1325	TOTAL VOLUME PURGED (gallons): 7.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1315	5.00	5.00	.25	13.02	6.72	23.96	371	1.73	.70	Clear	None
1320	1.25	6.25	.25	13.02	6.82	24.00	371	1.74	1.10	Clear	None
1325	1.25	7.50	.25	13.02	6.90	24.03	371	1.73	1.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1325	SAMPLING ENDED AT: 1330
PUMP OR TUBING DEPTH IN WELL (feet): 14.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-3B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	RFPP	≈ 100
MW-3B	1	PE	250 mL	HNO_3	None	<2	Metals	PP	≈ 946
MW-3B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP	≈ 946
MW-3B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	≈ 946
MW-3B	2	CG	40 mL	4° C	None	Not Req'd	8011	RFPP	≈ 100

REMARKS: ITS PP #4 ORP ~ +196.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-4**	WACS_WELL: **19572**	DATE: 9/16/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 18.75	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (26.56 feet – 18.75 feet) X .16 gallons/foot = 1.25 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.50	PURGING INITIATED AT: 1136	PURGING ENDED AT: 1157	TOTAL VOLUME PURGED (gallons): 2.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1149	1.30	1.30	.10	21.72	5.75	25.21	561	1.64	6.20	Clear	None
1153	.40	1.70	.10	23.61	5.83	25.29	565	1.48	6.30	Clear	None
1157	.40	2.10	.10	Below Pump	5.90	25.33	565	1.31	6.90	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1157	SAMPLING ENDED AT: 1203
PUMP OR TUBING DEPTH IN WELL (feet): 25.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-4	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-4	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 378
MW-4	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 378
MW-4	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 378
MW-4	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: NTU @ sample end = 25.70 ORP = +181.8

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-4B**	WACS_WELL: **21965**	DATE: 9/16/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 29.09	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (58.50 feet – 29.09 feet) X .16 gallons/foot = 4.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	PURGING INITIATED AT: 1209	PURGING ENDED AT: 1223	TOTAL VOLUME PURGED (gallons): 8.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1217	4.80	4.80	.60	29.15	6.40	23.61	285	2.83	.20	Clear	None
1220	1.80	6.60	.60	29.15	6.45	23.60	285	2.73	.20	Clear	None
1223	1.80	8.40	.60	29.15	6.55	23.60	286	2.69	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1223	SAMPLING ENDED AT: 1227
PUMP OR TUBING DEPTH IN WELL (feet): 30.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-4B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-4B	1	PE	250 mL	HNO_3	None	< 2	Metals	Stainless ESP	≈ 1135
MW-4B	1	PE	250 mL	H_2SO_4	None	< 2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-4B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-4B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed pump to sample

ORP = +155.8

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-5A**	WACS_WELL: **19573**	DATE: 9/17/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 12.28	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.10 feet – 12.28 feet) X .16 gallons/foot = 2.85 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.00	PURGING INITIATED AT: 0914	PURGING ENDED AT: 1010	TOTAL VOLUME PURGED (gallons): 5.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0954	4.00	4.00	.10	13.43	5.72	24.07	69	3.96	.90	Clear	None
1002	.80	480	.10	13.44	5.64	24.06	68	3.87	.60	Clear	None
1010	.80	580	.10	13.44	5.62	24.06	68	3.88	.60	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1010	SAMPLING ENDED AT: 1014
PUMP OR TUBING DEPTH IN WELL (feet): 14.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-5A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	RFPP	≈ 100
MW-5A	1	PE	250 mL	HNO_3	None	<2	Metals	PP	≈ 378
MW-5A	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP	≈ 378
MW-5A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	≈ 378
MW-5A	2	CG	40 mL	4° C	None	Not Req'd	8011	RFPP	≈ 100

REMARKS: ORP = +280.5

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-5B**	WACS_WELL: **19574**	DATE: 9/17/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 14.06	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (47.00 feet – 14.06 feet) X .16 gallons/foot = 5.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 15.00	PURGING INITIATED AT: 0917	PURGING ENDED AT: 0951	TOTAL VOLUME PURGED (gallons): 8.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0939	5.50	5.50	.25	14.39	7.57	23.46	273	3.18	1.30	Clear	None
0945	1.50	7.00	.25	14.39	7.63	23.46	272	3.07	.90	Clear	None
0951	1.50	8.50	.25	14.39	7.69	23.46	271	3.03	1.00	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0951	SAMPLING ENDED AT: 0956
PUMP OR TUBING DEPTH IN WELL (feet): 15.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP [Y] N TUBING Y [N (replaced)] DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-5B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	ESP	≈ 100
MW-5B	1	PE	250 mL	HNO_3	None	<2	Metals	ESP	≈ 946
MW-5B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	ESP	≈ 946
MW-5B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	ESP	≈ 946
MW-5B	2	CG	40 mL	4° C	None	Not Req'd	8011	ESP	≈ 100

REMARKS: ORP = +207

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-6**	WACS_WELL: **19575**	DATE: 9/17/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .170	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 16.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.05 feet – 16.00 feet) X .16 gallons/foot = 2.24 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.00179 gallons/foot X 32 feet) + .032 gallons = .069 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.00	PURGING INITIATED AT: 1036	PURGING ENDED AT: 1045	TOTAL VOLUME PURGED (gallons): .80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1138	.20	.20	.10	17.80	5.09	23.90	59	4.86	2.90	Clear	None
1142	.30	.50	.10	18.20	5.20	24.03	59	4.71	2.20		
1145	.30	.80	.10	18.54	5.24	24.07	59	4.74	3.00		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S): [signature]	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1049
PUMP OR TUBING DEPTH IN WELL (feet): 25.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-6	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	RFPP	≈ 100
MW-6	1	PE	250 mL	HNO_3	None	<2	Metals	PP	≈ 378
MW-6	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	PP	≈ 378
MW-6	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	PP	≈ 378
MW-6	2	CG	40 mL	4° C	None	Not Req'd	8011	RFPP	≈ 100

REMARKS: Utilized Screen interval Purge method due to historically severe draw and NTU Rise @ 1 volume with conventional purge. Total draw @ Sample End = 19.70 and NTU of 4.50 ORP=+190

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-6B**	WACS_WELL:	DATE: 9/17/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 17.36	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (57.15 feet – 17.36 feet) X .16 gallons/foot = 6.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18.50	PURGING INITIATED AT: 1034	PURGING ENDED AT: 1103	TOTAL VOLUME PURGED (gallons): 10.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1053	6.65	6.65	.35	17.49	7.15	23.57	259	2.30	.30	clear	none
1058	1.75	8.40	.35	17.49	7.19	23.57	255	2.30	.30	↓	↓
1103	1.75	10.15	.35	17.49	7.35	23.58	260	2.19	.20	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016
PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1103	SAMPLING ENDED AT: 1109
PUMP OR TUBING DEPTH IN WELL (feet): 18.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-6B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	ESP	≈ 100
MW-6B	1	PE	250 mL	HNO_3	None	< 2	Metals	ESP	≈ 1325
MW-6B	1	PE	250 mL	H_2SO_4	None	< 2	Ammonia (350.1)	ESP	≈ 1325
MW-6B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	ESP	≈ 1325
MW-6B	2	CG	40 mL	4° C	None	Not Req'd	8011	ESP	≈ 100

REMARKS: 1/4 WB = 1.55

ORP = +154.0

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-7A**	WACS_WELL: **19576**	DATE: 9/16/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 29.04	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (45.80 feet – 29.04 feet) X .16 gallons/foot = 2.68 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.50	PURGING INITIATED AT: 1014	PURGING ENDED AT: 1048	TOTAL VOLUME PURGED (gallons): 4.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1036	2.75	2.75	.125	37.50	4.83	25.79	149	.24	14.20	Clear	None
1042	.75	3.50	.125	38.87	4.90	25.75	151	.22	5.40	Clear	None
1048	.75	4.25	.125	40.14	4.88	25.80	152	.19	4.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1048	SAMPLING ENDED AT: 1054
PUMP OR TUBING DEPTH IN WELL (feet): 42.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-7A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-7A	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 473
MW-7A	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 473
MW-7A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 473
MW-7A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: 1/4 WV = .67

ORP = +250.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-7BR**	WACS_WELL: **22592**	DATE: 9/16/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 31.57	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (61.00 feet – 31.57 feet) X .16 gallons/foot = 4.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.50	PURGING INITIATED AT: 1101	PURGING ENDED AT: 1115	TOTAL VOLUME PURGED (gallons): 8.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1109	4.80	4.80	.60	31.69	6.71	24.56	284	1.30	10.00	clear	None
1112	1.80	6.60	.60	31.69	6.83	24.53	283	1.21	7.80	clear	None
1115	1.80	8.40	.60	31.69	6.90	24.51	282	1.17	3.10	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1115	SAMPLING ENDED AT: 1120
PUMP OR TUBING DEPTH IN WELL (feet): 32.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y Ø	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-7BR	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-7BR	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-7BR	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-7BR	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-7BR	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: 1/4 wv = 1.18 ORP = +71.0

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-8**	WACS_WELL: **19578**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 35.01	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.90 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-8	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ *100*
MW-8	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-8	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-8	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-8	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ *100*

REMARKS: Historic data shows this well cannot be sampled at this depth. ORP=

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-8B**	WACS_WELL: **21323**	DATE: 9/16/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 36.73	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (57.00 feet – 36.73 feet) X .16 gallons/foot = 3.24 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.50	PURGING INITIATED AT: 0938	PURGING ENDED AT: 0950	TOTAL VOLUME PURGED (gallons): 7.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0944	3.60	3.60	.60	36.83	6.83	26.48	630	.10	.50	Clear	None
0947	1.80	5.40	.60	36.83	6.85	26.47	621	.10	.40	Clear	None
0950	1.80	7.20	.60	36.83	6.84	26.44	616	.09	.30	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0955
PUMP OR TUBING DEPTH IN WELL (feet): 37.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-8B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-8B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-8B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-8B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-8B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed pump to sample

ORP = -110.8

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-9**	WACS_WELL: **19579**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 29.56	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (29.70 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-9	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-9	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-9	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-9	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-9	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Historic data shows this well cannot be sampled at this depth. ORP =

DRY WELL - No Sample

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-9B**	WACS_WELL: **21324**	DATE: 9/16/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 37.84	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (48.90 feet – 37.84 feet) X .16 gallons/foot = 1.77 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39.50	PURGING INITIATED AT: 0909	PURGING ENDED AT: 0920	TOTAL VOLUME PURGED (gallons): 6.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0914	3.00	3.00	.60	38.45	7.15	25.94	538	3.26	2.00	Clear	None
0917	1.80	4.80	.60	38.45	7.08	25.94	539	3.22	1.10	Clear	None
0920	1.80	6.60	.60	38.45	7.06	25.94	537	3.25	.90	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0930
PUMP OR TUBING DEPTH IN WELL (feet): 39.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-9B	36	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-9B	2	PE	250 mL	HNO_3	None	<2 / <2	Metals	Stainless ESP	≈ 1135
MW-9B	2	PE	250 mL	H_2SO_4	None	<2 / <2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-9B	2	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-9B	24	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100
	(D) 9/16/14					/ Dup sample			

REMARKS: Slowed pump to sample

ORP = +99.1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-10**	WACS_WELL: **19580**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): **.375**	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 37.31	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (37.65 feet – 37.31 feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-10	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ *100*
MW-10	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-10	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-10	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-10	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ *100*

REMARKS: Historical records show this well cannot be sampled at this depth.

ORP =

DRY WELL - NO Sample

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-10B**	WACS_WELL: **21325**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 38.08	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (61.90 feet – 38.08 feet) X .16 gallons/foot = 3.81 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39.00	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1511	TOTAL VOLUME PURGED (gallons): 6.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1505	4.00	4.00	.40	38.10	5.76	25.55	353	.47	.30	Clear	None
1508	1.20	5.20	.40	38.10	5.81	25.54	354	.55	.30	Clear	None
1511	1.20	6.40	.40	38.10	5.90	25.53	360	.60	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1511	SAMPLING ENDED AT: 1516
PUMP OR TUBING DEPTH IN WELL (feet): 39.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-10B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-10B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-10B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-10B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-10B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: slowed pump to sample ORP = +54.1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-11**	WACS_WELL: **19581**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 32.18	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (42.60 feet – 32.18 feet) X .16 gallons/foot = 1.67 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34.50	PURGING INITIATED AT: 1417	PURGING ENDED AT: 1440	TOTAL VOLUME PURGED (gallons): 2.99

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1432	1.95	1.95	.13	33.84	4.18	26.32	133	.10	15.60	Clear	None
1436	.52	2.47	.13	33.84	4.28	26.20	132	.10	14.00	Clear	None
1440	.52	2.99	.13	33.84	4.33	26.19	131	.10	11.90	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1440	SAMPLING ENDED AT: 1446
PUMP OR TUBING DEPTH IN WELL (feet): 34.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-11	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-11	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 492
MW-11	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 492
MW-11	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 492
MW-11	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: 1440 DO = .42 ORP = -89.4

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-11B**	WACS_WELL: **22593**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 34.45	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (84.50 feet – 34.45 feet) X .16 gallons/foot = 8.01 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36.00	PURGING INITIATED AT: 1353	PURGING ENDED AT: 1408	TOTAL VOLUME PURGED (gallons): 15.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1402	9.00	9.00	1.00	35.06	5.67	24.56	215	.10	1.90	Clear	None
1405	3.00	12.00	1.00	35.06	5.75	24.54	222	.11	1.20	Clear	None
1408	3.00	15.00	1.00	35.06	5.81	24.57	223	.10	1.00	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1408	SAMPLING ENDED AT: 1413
PUMP OR TUBING DEPTH IN WELL (feet): 36.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-11B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-11B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-11B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-11B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-11B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: slowed pump to sample ORP = +206.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-12A**	WACS_WELL: **19582**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 49.65	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (61.50 feet – feet) X .16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-12A	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-12A	1	PE	250 mL	HNO_3	None		Metals	Stainless ESP	≈
MW-12A	1	PE	250 mL	H_2SO_4	None		Ammonia (350.1)	Stainless ESP	≈
MW-12A	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈
MW-12A	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Historic data shows this well cannot be sampled at this depth. ORP=

DRY WELL - NO Sample

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-12B**	WACS_WELL: **19583**	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 49.88	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (90.20 feet – 49.88 feet) X .16 gallons/foot = 6.45 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 51.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 51.00	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1257	TOTAL VOLUME PURGED (gallons): 15.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1251	7.50	7.50	1.25	49.95	6.57	23.99	249	5.66	4.00	clear	None
1254	3.75	11.25	1.25	49.95	6.50	23.98	253	5.47	2.40	clear	None
1257	3.75	15.00	1.25	49.95	6.56	23.96	260	5.39	2.10	clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1257	SAMPLING ENDED AT: 1302
PUMP OR TUBING DEPTH IN WELL (feet): 51.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-12B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-12B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-12B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-12B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-12B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: Slowed pump to sample ORP = +106.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-15B**	WACS_WELL:	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 76.10	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (103.40 feet – 76.10 feet) X .16 gallons/foot = 4.36 (1) 9.17 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 9/15/14
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 77.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 77.00	PURGING INITIATED AT: 1214	PURGING ENDED AT: 1228	TOTAL VOLUME PURGED (gallons): 8.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1222	4.80	4.80	.60	76.20	7.10	24.41	535	2.93	.30	Clear	None
1225	1.80	6.60	.60	76.20	6.95	24.45	534	2.90	.30	Clear	None
1228	1.80	8.40	.60	76.20	6.96	24.38	534	2.91	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1228	SAMPLING ENDED AT: 1233
PUMP OR TUBING DEPTH IN WELL (feet): 77.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-15B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-15B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-15B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-15B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-15B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: slowed pump to sample ORP = +100.6

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-16B**	WACS_WELL:	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 66.19	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (103.40 feet – 66.19 feet) X .16 gallons/foot = 5.95 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 67.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 67.00	PURGING INITIATED AT: 1138	PURGING ENDED AT: 1154	TOTAL VOLUME PURGED (gallons): 9.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1148	6.00	6.00	.60	66.39	8.83	24.13	238	7.15	.30	Clear	None
1151	1.80	7.80	.60	66.39	8.81	24.10	239	7.15	.30	Clear	None
1154	1.80	9.60	.60	66.39	8.73	24.12	240	7.20	.20	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1154	SAMPLING ENDED AT: 1159
PUMP OR TUBING DEPTH IN WELL (feet): 67.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-16B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-16B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-16B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-16B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-16B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: slowed pump to sample ORP = +73.4

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-17B**	WACS_WELL:	DATE: 9/15/14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 15.34	PURGE PUMP TYPE OR BAILER: **Stainless ESP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (80.60 feet – 15.34 feet) X .16 gallons/foot = 10.44 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 16.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 16.50	PURGING INITIATED AT: 1035	PURGING ENDED AT: 1050	TOTAL VOLUME PURGED (gallons): 18.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1044	11.25	11.25	1.25	15.55	7.02	23.41	403	4.82	5.70	Clear	None
1047	3.75	15.00	1.25	15.55	7.08	23.41	394	4.87	2.30	Clear	None
1050	3.75	18.75	1.25	15.55	7.13	23.40	387	4.87	1.80	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1050	SAMPLING ENDED AT: 1055
PUMP OR TUBING DEPTH IN WELL (feet): 16.50	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-17B	3	CG	40 mL	HCL	None	Not Req'd	8260 (app. 1 FL)	Stainless ESP	≈ 100
MW-17B	1	PE	250 mL	HNO_3	None	<2	Metals	Stainless ESP	≈ 1135
MW-17B	1	PE	250 mL	H_2SO_4	None	<2	Ammonia (350.1)	Stainless ESP	≈ 1135
MW-17B	1	PE	250 mL	4° C	None	Not Req'd	Chloride, Nitrate, TDS	Stainless ESP	≈ 1135
MW-17B	2	CG	40 mL	4° C	None	Not Req'd	8011	Stainless ESP	≈ 100

REMARKS: 1/4 wv = 2.61 Slowed pump to sample ORP = +156.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

CALIBRATION LOG

ITS Work Order Number: ARM-EL-21-091514

CLIENT: Angelo's Recycled Materials

ADDRESS: 41111 Enterprise Road

CITY, STATE: Dade City, FL 33525-1539

Site: Enterprise Class III Landfill

START CAL DATE @ TIME: 09/15/14 @ 0710

END CALIBRATION DATE @ TIME: 09/15/14 @ 1730

YSI 556 MULTI PARAMETER METER - S/N 07D100973 (ITS #3) REV 5.26

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING INITIAL	METER READING CCV	VERIFY @ START	LOT NUMBER	EXP DATE
4.005	4.00	3.99	✓	cc218591	Nov-15
7.000	7.00	7.02	7.01	cc219589	Dec-15
10.012	10.01	9.99	✓	cc212368	Nov-15

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)		YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW	5.10	5.13		NA	06/02/14
HIGH	30.00		30.03		06/02/14

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	METER READING INITIAL	METER READING CCV	LOT NUMBER	EXPIRATION DATE
0.00	.17	.16	4AC373	Mar-15
fresh air @				
23.50 °C	8.52			
27.93 °C		7.85		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD µmhos	METER READING INITIAL	METER READING CCV	LOT NUMBER	EXPIRATION DATE
8,974	NM	NM	4AC065	Mar-15
2,764	2764	2772	3AK229	Nov-14
447	NM	NM	3AD497	Apr-14
84	84	85	4AA431	Jan-15

Standards prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	METER READING INITIAL	METER READING CCV	LOT NUMBER	EXPIRATION DATE
200	200	202	4AD362	Jan-15
400	400	399	4AB414	Feb-15

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book

HACH POCKET COLORIMETER II S/N 06070D052733

STANDARD ID	BLANK	1	2	3
MFGR VALUE mg/L	0.00	.21	0.90	1.61
VERIFIED VALUE mg/L	0.00	0.23	0.95	1.62
CCV METER mg/L	NM	NM	NM	NM

Standard is HACH DPD Chlorine LR secondary GEL Standard. Lot A5318 Verified 6/18/12

HF SCIENTIFIC DRT-15CE TURBIDITY METER - MODEL # 19057 S/N 804099 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 2)

STANDARD (ntu)	METER READING INITIAL	METER READING CCV	LOT NUMBER	EXPIRATION DATE
1000	NM	NM	See Below	Nov-14
100	100	100	See Below	Nov-14
10	10	10	See Below	Nov-14
0.02	.02	.02	See Below	Nov-14

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 39071, Lot# 21155

Remarks:

Weather Conditions: Sunny 85-90°F

Equipment Blank with D.I. water

Zephyrhills brand Lot #080814220WF2332046

Exp Date 02/29/16

Equipment Blank Data - Collected @ none collected

pH = ✓ Cond = ✓

Temp = ✓ D.O. = ✓

Turbidity = ✓

Notes: **NA** - Not Applicable, **NM** - Not Measured, **CCV** - Continuing Calibration Verification Form Rev 5.26 on 06/02/14: Update for new standard (s)

All equipment used to obtain data at this site is owned, operated, and maintained by Ideal Tech Services Inc., unless otherwise noted. All equipment was purchased new from the manufacturers or authorized distributors. Preventative maintenance will be performed at the intervals specified by the manufacturer of each piece of equipment, or when equipment calibration results are out of tolerance. Equipment maintenance logs will be maintained by Ideal Tech Services Inc.

COPY TO: John Arnold, P.E.

SIGNED: Karen LeBeau

Chris Monaco or Karen LeBeau

CALIBRATION LOG

ITS Work Order Number: ARM-EL-21-091614

CLIENT: Angelo's Recycled Materials

ADDRESS: 41111 Enterprise Road

CITY, STATE: Dade City, FL 33525-1539

Site: Enterprise Class III Landfill

START CAL DATE @ TIME: 09/16/14 @ 0700

END CALIBRATION DATE @ TIME: 09/16/14 @ 1720

YSI 556 MULTI PARAMETER METER - S/N 07D100973 (ITS #3) REV 5.26

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING INITIAL	METER READING CCV	VERIFY @ START	LOT NUMBER	EXP DATE
4.005	4.00	3.99	—	cc218591	Nov-15
7.000	7.00	7.01	7.00	cc219589	Dec-15
10.012	10.01	9.98	—	cc212368	Nov-15

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)	YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW 5.10	5.13		NA	06/02/14
HIGH 30.00		30.03		06/02/14

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	METER READING INITIAL	METER READING CCV	LOT NUMBER	EXPIRATION DATE
0.00	.18	.17	4AC373	Mar-15
fresh air @				
23.14 °C	8.57			
27.07 °C		7.97		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD µmhos	METER READING INITIAL	METER READING CCV	LOT NUMBER	EXPIRATION DATE
8,974	NM	NM	4AC065	Mar-15
2,764	2,764	2,769	3AK229	Nov-14
447	NM	NM	3AD497	Apr-14
84	84	84	4AA431	Jan-15

Standards prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	METER READING INITIAL	METER READING CCV	LOT NUMBER	EXPIRATION DATE
200	200	201	4AD362	Jan-15
400	400	401	4AB414	Feb-15

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book

HACH POCKET COLORIMETER II S/N 06070D052733

STANDARD ID	BLANK	1	2	3
MFGR VALUE mg/L	0.00	.21	0.90	1.61
VERIFIED VALUE mg/L	0.00	0.23	0.95	1.62
CCV METER mg/L	NM	NM	NM	NM

Standard is HACH DPD Chlorine LR secondary GEL Standard. Lot A5318 Verified 6/18/12

HF SCIENTIFIC DRT-15CE TURBIDITY METER - MODEL # 19057 S/N 804099 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 2)

STANDARD (ntu)	METER READING INITIAL	METER READING CCV	LOT NUMBER	EXPIRATION DATE
1000	NM	NM	See Below	Nov-14
100	100	100	See Below	Nov-14
10	10	10	See Below	Nov-14
0.02	.02	.02	See Below	Nov-14

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 39071, Lot# 21155

Remarks: Light Rain on and off in Afternoon

Weather Conditions: Overcast 85-90°F

Equipment Blank with D.I. water

Zephyrhills brand Lot #080814220WF2332046

Exp Date 02/29/16

Equipment Blank Data - Collected @ 1005

pH = ✓ Cond = ✓

Temp = ✓ D.O. = ✓

Turbidity = ✓

Notes: **NA** - Not Applicable, **NM** - Not Measured, **CCV** - Continuing Calibration Verification Form Rev 5.26 on 06/02/14: Update for new standard (s)

All equipment used to obtain data at this site is owned, operated, and maintained by Ideal Tech Services Inc., unless otherwise noted. All equipment was purchased new from the manufacturers or authorized distributors. Preventative maintenance will be performed at the intervals specified by the manufacturer of each piece of equipment, or when equipment calibration results are out of tolerance. Equipment maintenance logs will be maintained by Ideal Tech Services Inc.

COPY TO: John Arnold, P.E.

SIGNED: Karen LeBeau

Chris Monaco or Karen LeBeau

CALIBRATION LOG

ITS Work Order Number: ARM-EL-21-091714

CLIENT: Angelo's Recycled Materials

ADDRESS: 41111 Enterprise Road

CITY, STATE: Dade City, FL 33525-1539

Site: Enterprise Class III Landfill

START CAL DATE @ TIME: 09/17/14 @ 0705

END CALIBRATION DATE @ TIME: 09/17/14 @ 1650

YSI 556 MULTI PARAMETER METER - S/N 07D100973 (ITS #3) REV 5.26

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING INITIAL	METER READING CCV	VERIFY @ START	LOT NUMBER	EXP DATE
4.005	4.00	3.99	—	cc218591	Nov-15
7.000	7.00	7.01	7.00	cc219589	Dec-15
10.012	10.01	9.99	—	cc212368	Nov-15

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)		YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW	5.10	5.13		NA	06/02/14
HIGH	30.00		30.03		06/02/14

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
0.00	.18	.17	4AC373	Mar-15
fresh air @				
22.79 °C	8.62			
26.90 °C		7.99		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD µmhos	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
8,974	NM	NM	4AC065	Mar-15
2,764	2764	2769	3AK229	Nov-14
447	NM	NM	3AD497	Apr-14
84	84	84	4AA431	Jan-15

Standards prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
200	200	201	4AD362	Jan-15
400	400	401	4AB414	Feb-15

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book

HACH POCKET COLORIMETER II S/N 06070D052733

STANDARD ID	BLANK	1	2	3
MFGR VALUE mg/L	0.00	.21	0.90	1.61
VERIFIED VALUE mg/L	0.00	0.23	0.95	1.62
CCV METER mg/L	NM	NM	NM	NM

Standard is HACH DPD Chlorine LR secondary GEL Standard. Lot A5318 Verified 6/18/12

HF SCIENTIFIC DRT-15CE TURBIDITY METER - MODEL # 19057 S/N 804099 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 2)

STANDARD (ntu)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
1000	NM	NM	See Below	Nov-14
100	100	100	See Below	Nov-14
10	10	10	See Below	Nov-14
0.02	.02	.02	See Below	Nov-14

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 39071, Lot# 21155

Remarks: light rain on and off all day

Weather Conditions: Overcast 80-85°F

Equipment Blank with D.I. water

Zephyrhills brand Lot #080814220WF2332046

Exp Date 02/29/16

Equipment Blank Data - Collected @ none collected

pH = — Cond = —

Temp = — D.O. = —

Turbidity = —

Notes: **NA** - Not Applicable, **NM** - Not Measured, **CCV** - Continuing Calibration Verification Form Rev 5.26 on 06/02/14: Update for new standard (s)

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COPY TO: John Arnold, P.E.

SIGNED: Karen LeBeau

Chris Monaco or Karen LeBeau

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: Angelo's Recycled Materials (AN010)	Project Number: 87895
Address: 41111 Enterprise Road	Project Name/Desc: ENTERPRISE LF & RECYC (FKA SID LARKIN & SON, INC.)
City/ST/Zip: Dade City, FL 33525	PO # / Billing Info:
Tel: (352) 339-1408 Fax:	Reporting Contact: John Arnold
Sampler(s) Name, Affiliation (Print): Chris Monaco Ideal Tech Services Inc.	Billing Contact: John Arnold
Sampler(s) Signature:	Site Location / Time Zone: FL/EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: A405263

Requested Analyses: 8011; 8260B Appendix 1 FL; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Na,Ni,Pb,Sb,Se,Tl,V,Zn,Hg; Ammonia 350.1; Chloride 300,Nitrate as N 300, TDS SM2540C

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	I	H	N	S	I						Sample Comments
	MW-17B	9-15-14	1055	Grab	GW	8	X	X	X	X	X						
	MW-1B	9-15-14	1128	Grab	GW	8	X	X	X	X	X						
	MW-16B	9-15-14	1159	Grab	GW	8	X	X	X	X	X						
	MW-15B	9-15-14	1233	Grab	GW	8	X	X	X	X	X						
	MW-12B	9-15-14	1302	Grab	GW	8	X	X	X	X	X						
	BW-1B	9-15-14	1348	Grab	GW	8	X	X	X	X	X						
	MW-11B	9-15-14	1413	Grab	GW	8	X	X	X	X	X						
	MW-11	9-15-14	1446	Grab	GW	8	X	X	X	X	X						
	MW-10B	9-15-14	1516	Grab	GW	8	X	X	X	X	X						
	trip blank 1	-	-	Grab	O	2	X	X	X	X	X	IW 9/15/14					O-Lab DI water
	MW-9B	9-16-14	0930	Grab	GW	8	X	X	X	X	X						
	Duplicate	9-16-14	0930	Grab	GW	8	X	X	X	X	X						
						<-- Total # of Containers											

Sample Kit Prepared By: KJC	Date/Time: 9/9/14 1650	Relinquished By: K. Carey	Date/Time: 9/9/14 1650	Received By:	Date/Time: 9-11-14 1530
Comments/Special Reporting Requirements		Relinquished By:	Date/Time: 9-16-14 1350	Received By: Dawn LeBlanc	Date/Time: 9-16-14 1350
		Relinquished By: Dawn LeBlanc	Date/Time: 9-16-14	Received By:	Date/Time: 9/16 1430
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

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Client Name: Angelo's Recycled Materials (AN010)	Project Number: 87895
Address: 41111 Enterprise Road	Project Name/Desc: ENTERPRISE LF & RECYC (FKA SID LARKIN & SON, INC.)
City/ST/Zip: Dade City, FL 33525	PO # / Billing Info:
Tel: (352) 339-1408 / Fax:	Reporting Contact: John Arnold
Sampler(s) Name, Affiliation (Print): Chris Monaco, Ideal Tech Services Inc.	Billing Contact: John Arnold
Sampler(s) Signature:	Site Location / Time Zone: FL/EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: A405263

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8011	8260B Appendix 1 FL	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Na,Ni,Pb,Sb,Se,Tl,V,Zn,Hg	Ammonia 350.1	Chloride 300,Nitrate as N 300, TDS SM2540C						Sample Comments
						Preservation (See Codes) (Combine as necessary)	I	H	N	S	I						
	MW-8B	9-16-14	0955	Grab	GW	8	x	x	x	x	x						
	EQUIPMENT BLANK	9-16-14	1005	Grab	OT	8	x	x	x	x	x						OT: DI Water
	MW-7A	9-16-14	1054	Grab	GW	8	x	x	x	x	x						
	MW-7BR	9-16-14	1120	Grab	GW	8	x	x	x	x	x						
	MW-4	9-16-14	1203	Grab	GW	8	x	x	x	x	x						
	MW-4B	9-16-14	1227	Grab	GW	8	x	x	x	x	x						
	MW-3	9-16-14	1322	Grab	GW	8	x	x	x	x	x						
	MW-3B	9-16-14	1330	Grab	GW	8	x	x	x	x	x						
	tripblank 2	—	—	Grab	O	2		x									O: Lab DI Water
						<-- Total # of Containers											

Sample Kit Prepared By: KJC	Date/Time: 9/9/14 1650	Relinquished By: Kim Carey	Date/Time: 9/9/14 1650	Received By: [signature]	Date/Time: 9-11-14 1530
Comments/Special Reporting Requirements		Relinquished By: [signature]	Date/Time: 9-16-14 1350	Received By: Kamille Bear	Date/Time: 9-16-14 1350
		Relinquished By: Kamille Bear	Date/Time: 9-16-14	Received By: [signature]	Date/Time: 9/16 1430
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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www.encolabs.com

Client Name: Angelo's Recycled Materials (AN010)	Project Number: 87895
Address: 41111 Enterprise Road	Project Name/Desc: ENTERPRISE LF & RECYC (FKA SID LARKIN & SON, INC)
City/ST/Zip: Dade City, FL 33525	PO # / Billing Info:
Tel: (352) 339-1408 / Fax:	Reporting Contact: John Arnold
Sampler(s) Name, Affiliation (Print): Chris Monaco TidalTech Services Inc.	Billing Contact: John Arnold
Sampler(s) Signature:	Site Location / Time Zone: FL/EST

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: A405263

Requested Analyses: 8011; 8260B Appendix 1 FL; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,Mo,Ni,Pb,Sb,Se,Tl,V,Zn, Hg; Ammonia 350.1; Chloride 300;Nitrate as N 300, TDS SM2540C

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	I	H	N	S	I						Sample Comments
	MW-5B	9-17-14	0956	Grab	GW	8	x	x	x	x	x						
	MW-5A	9-17-14	1016	Grab	GW	8	x	x	x	x	x						
	MW-6	9-17-14	1049	Grab	GW	8	x	x	x	x	x						
	MW-6B	9-17-14	1109	Grab	GW	8	x	x	x	x	x						
	Supply well	9-17-14	1248	Grab	GW	8	x	x	x	x	x						
	trip blank 3	-	-	Grab	O	2		x									0°-Lab pt water

<-- Total # of Containers

Sample Kit Prepared By: KJC	Date/Time: 9/9/14 1650	Relinquished By: Kim Carey	Date/Time: 9/9/14 1650	Received By: [signature]	Date/Time: 9-11-14 1530
Comments/Special Reporting Requirements		Relinquished By: [signature]	Date/Time: 9-17-14 1300	Received By: Karen LeBeau	Date/Time: 9-17-14 1300
		Relinquished By: Karen LeBeau	Date/Time: 9-17-14 1440	Received By: [signature]	Date/Time: 9/17 1400
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

CALIBRATION LOG

ITS Work Order Number: ARM-EL-22-121014

CLIENT: Angelo's Recycled Materials

ADDRESS: 41111 Enterprise Road

CITY, STATE: Dade City, FL 33525-1539

Site: Enterprise Class III Landfill

START CAL DATE @ TIME: 12/10/14 @ 0745

END CALIBRATION DATE @ TIME: 12/10/14 @ 2030

YSI 556 MULTI PARAMETER METER - S/N 07D100973 (ITS #3) REV 5.26

pH Sensor Per DEP-SOP-001/01 FT 1100

Standard	METER READING INITIAL	METER READING CCV	VERIFY @ START	LOT NUMBER	EXP DATE
4.005	4.00	4.02	—	cc218591	Nov-15
7.000	7.00	7.02	7.00	cc219589	Dec-15
10.012	10.01	10.00	—	cc212368	Nov-15

Standards are prepared by OAKTON. Liquid Temp: N/A

Temperature Sensor Per DEP-SOP-001/01 FT 1400

STANDARD (ERTCO Thermometer)		YSI METER TEMP READING LOW	YSI METER TEMP READING HIGH	LOT NUMBER	DATE PERFORMED (Quarterly)
LOW	5.20	5.24		NA	10/01/14
HIGH	29.10		29.12		10/01/14

Thermometer is N.I.S.T. certified and manufactured by ERTCO, S/N 2206. Temp is in °C unless otherwise noted. YSI is checked against ERTCO once per Quarter

Dissolved Oxygen Sensor Per DEP-SOP-001/01 FT 1500

STANDARD (ppm)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
0.00	.18	.17	4AC373	Mar-15
fresh air @				
22.11 °C	8.72			
21.71 °C		8.82		

Zero D.O. standard is Sodium Sulfite, Cobalt Chloride Hexahydrate, Water prepared by Oakton.

Conductivity Sensor Per DEP-SOP-001/01 FT 1200

STANDARD µmhos	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
8,974	NM	NM	4AC065	Mar-15
2,764	2764	2778	3AK229	Nov-14
447	NM	NM	3AD497	Apr-14
84	84	85	4AA431	Jan-15

Standards prepared by Oakton. All standards are potassium chloride solutions.

ORP Sensor Per DEP-SOP-001/01 FT 2100

STANDARD (mV)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
200	200	201	4AD362	Jan-15
400	400	399	4AB414	Feb-15

Standard is ORP solution +/- 5% @ 25° C, prepared by USA Blue Book

HACH POCKET COLORIMETER II S/N 06070D052733

STANDARD ID	BLANK	1	2	3
MFGR VALUE mg/L	0.00	.21	0.90	1.61
VERIFIED VALUE mg/L	0.00	0.23	0.95	1.62
CCV METER mg/L	NM	NM	NM	NM

Standard is HACH DPD Chlorine LR secondary GEL Standard. Lot A5318 Verified 6/18/12

HF SCIENTIFIC DRT-15CE TURBIDITY METER - MODEL # 19057 S/N 804099 Per DEP-SOP-001/01 FT 1600 (ITSNTU # 2)

STANDARD (ntu)	INITIAL METER READING	CCV METER READING	LOT NUMBER	EXPIRATION DATE
1000	NM	NM	See Below	Nov-14
100	100	100	See Below	Nov-14
10	10	10	See Below	Nov-14
0.02	.02	.02	See Below	Nov-14

Nephelometric Turbidity Unit (NTU) Standards are prepared by Primetime, Set# 39071, Lot# 21155

Remarks:

Weather Conditions: Sunny 65-70°F

Equipment Blank with D.I. water

Zephyrhills brand Lot #111314317WF2330727

Exp Date 05/31/16

Equipment Blank Data - Collected @ 1440

pH = — Cond = —

Temp = — D.O. = —

Turbidity = —

Notes: **NA** - Not Applicable, **NM** - Not Measured, **CCV** - Continuing Calibration Verification Form Rev 5.26 on 06/02/14: Update for new standard (s)

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COPY TO: John Arnold, P.E.

SIGNED: Karen LeBeau

Chris Monaco or Karen LeBeau

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Angelo's Aggregate Materials, LTD Enterprise Class III Landfill	SITE LOCATION: Pasco County, Florida	
WELL NO: **MW-11B / Recollect**	WACS_WELL: 22593	DATE: 12 / 10 / 14

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): .375	WELL SCREEN INTERVAL DEPTH: UNK feet to UNK feet	STATIC DEPTH TO WATER (feet): 33.88	PURGE PUMP TYPE OR BAILER: Stainless ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (84.50 feet – 33.88 feet) X .16 gallons/foot = 8.10 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34.50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35.00	PURGING INITIATED AT: 1443	PURGING ENDED AT: 1457	TOTAL VOLUME PURGED (gallons): 12.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1454	8.25	8.25	.75	34.18	5.60	24.69	193	.18	2.00	Clear	None
1457	2.25	10.50	.75	34.18	5.74	24.70	200	.22	1.50	Clear	None
1500	2.25	12.75	.75	34.18	5.78	24.69	199	.22	1.70	Clear	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Chris Monaco or Karen LeBeau, Ideal Tech Services, Inc.	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1501
PUMP OR TUBING DEPTH IN WELL (feet): 35.00	TUBING MATERIAL CODE: *PE*	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP [Y] N	TUBING Y [N (replaced)]	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-11B-1	1	PE	250 mL	HNO_3	None		Metals (Hg Only)	Stainless ESP	≈1135

REMARKS: Slowed pump to sample

Sample Nomenclature for reporting is MW-11B-1

ORP= -14.2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Cary, NC 27511
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Page 1 of 1

Client Name: Angelo's Recycled Materials	Project Number: 87895
Address: 4111 Enterprise Road	Project Name/Desc: Enterprise LF
City/ST/Zip: Dade City, FL 33525	PO # / Billing Info:
Tel: 352 339-1408 / Fax:	Reporting Contact: John Arnold
Sampler(s) Name, Affiliation (Print): Chris Monaco, Ideal Tech Services Inc	Billing Contact:
Sampler(s) Signature:	Site Location / Time Zone: FL/EST

Requested Analyses: Hg

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

X Expedited

Due 12/16/14

Lab Workorder

Preservation (See Codes) (Combine as necessary): N

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Hg	Sample Comments
	FQ Blank	12-10-14	1440	Grab	O	1	X	O = DI Water

<-- Total # of Containers

Sample Kit Prepared By: KJC	Date/Time: 12/9/14 1335	Relinquished By: K. Crew	Date/Time: 12/9/14 1335
Comments/Special Reporting Requirements		Relinquished By: [signature]	Date/Time: 12/9/14 1800
		Relinquished By	Date/Time

Received By: [signature]	Date/Time: 12/10/14 0920	Received By: [signature]	Date/Time: 12/10/2014 1801
Received By	Date/Time		

Cooler #'s & Temps on Receipt

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

SIR SPEEDY #50800 (407) 647-3328

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: Angelo's Recycled Materials	Project Number: 87895
Address: 41111 Enterprise Road	Project Name/Desc: Enterprise LF
City/ST/Zip: Dade City, FL 33525	PO # / Billing Info:
Tel: 352 339-1408 / Fax:	Reporting Contact: John Arnold
Sampler(s) Name, Affiliation (Print): Chris Monaco, Ideal Tech Services Inc	Billing Contact:
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: Hg

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

X Expedited

Due 12/12/14

Lab Workorder

Preservation (See Codes) (Combine as necessary): N

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Hg	Sample Comments
	MW-11B-1	12-10-14	1501	Grab	GW	1	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 12-10-14 1801	Received By	Date/Time 12/10/2014 1801
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Attachment 5
ADaPT Files and Laboratory Reports including Chains-of-Custody